BRUHAT BENGALURU MAHANAGARA PALIKE

Name of Work:Comprehensive Development of Roads, Drains, Special repairs to buildings and other works in Sunnadagoodu, Ambedkarnagar, Mohan Kumar nagar, Poornapura, Ramabhovi Colony, Jalahalli Harijana, Siddarthanagar, Khathanagar, Ashrayanagar, Karadigudi, Peenya 4th block A K Colony and Surrounding areas of Slums in R R Nagar Constituency under PACKAGE-2019-20 RRN-DIV-(13)..

Rate Analysis

CSR: 2018-19 (Issue Rate 03/03/2022)

Sl No	Description of work	Unit	Page No.	Item No.	Basic/Date Rate	AW 6%	Lead & Lift	Loading	Sub Total	TP +1%	Grand Total
1	Geophysical investigation of site for Sinking borewell for supplying drinking water to the habitations either through the hand pump,MWS,P.W.S.S by vertical electrical sounding by adpoting venner or Schlumberger's method,including reconnaissance survey of Geological formation. Geophysical investigation of existing ground indecundity its quality & acceptability of the users indicating the location of site,recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre inconsolidated formation for proper seating of casing pipe,depth of drilling required to cover full depth of aquifer proposed to be tapped,probable yield and other information required including transportation of instrument and accesories to work site,engaging technical personal and labour required etc.,(Issue rate as on date 02/05/2019 It.13.04)	No		13.04	3768.00				3768.00	37.68	3805.68

Scanned with CamScanner

Sl No	Description of work	Unit	Page No.	Item No.	Basic/Date Rate	AW 6%	Lead & Lift	Loading	Sub Total	TP +1%	Grand Total
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 300 PSIG & above 1100 CMF & above in all strata including over burden upto 20 M fixing of casing pipes, collars and cap with necessary cutting and threading including transportation of rig and supporting vehicals, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour .(excluding cost of casing pipes, collars, cap ect.) (Issue rate as on date 02/05/2019 It.13.01) (0 to 50m)	Rmt		13.01	347.00				347.00	3.47	350.47
3	50 to 100 m	Rmt		13.01	442.00				442.00	4.42	446.42
4	100 to 150 m	Rmt		13.01	456.00				456.00	4.56	460.56
5	150 to 200 m	Rmt		13.01	536.00				536.00	5.36	541.36
6	200 to 250 m	Rmt		13.01	634.00				634.00	6.34	640.34
7	250 to 300 m	Rmt		13.01	700.00				700.00	7.00	707.00
8	300 to 350 m	Rmt		13.01	825.00				825.00	8.25	833.25
9	350 to 400 m	Rmt		13.01	900.00				900.00	9.00	909.00
10	400 to 420 m	Rmt		13.01	1129.00				1129.00	11.29	1140.29
11	Providing and fixing 250mm dia PVC (casing pipe) (page no.XXXI, SL no.909) (KPWD SR 2016-17)	Rmt	XXXI	909.00	2600.00				2600.00	26.00	2626.00

Scanned with CamScanner

Sl No	Description of work	Unit	Page No.	Item No.	Basic/Date Rate	AW 6%	Lead & Lift	Loading	Sub Total	TP +1%	Grand Total
12	Supply of ISI Mark 175mm nominal Bore, Plain end steel casing Pipe-grade of steel Fee 4100 of wakk thickness 504mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel electric or basic oxygen process in fandom length of 5 to 7mtr. Both ends threaded confirming to Is554/1985 one end fixed with socket confirming to IS 270:2001 and other end with screwed pipes. All pipes shall be reasonably free from defectes. The tubes shall be resonably straigth should be with ISI Marking Weighting 25.10 kg/mtr (Inclusive of all taxes and durties) Prices include Collar - medium duty. (Page No.III,It no.84)PRED SR 2012-13.	Rmt	III	84.00	1325.00				1325.00	13.25	1338.25
14	Providing 175mm dia Bore Cap CE (M) (P.No.iii,I.No.85) PRED SR 2012-13	No	III	85.00	100.00				100.00	1.00	101.00
15	Atalanta suguna CRI KIRLOSKAR and other equipments pumps 10.00 HP/7.5 KV (20 stage) (Pg No. XLI. Sl.no.29) KPWD SR-2018-19	No	XLI	29.00	49955.00				49955.00	499.55	50454.55
16	Providing and fixing in trenches galvinised/mild steel tube 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for seperately) including cost of all materials, labour charges,HOM of equipment and testing complete as per specifications. Specification No. KBS 13.2.14/13.6 (page no.92/It no.13.15)KPWD SR 2018-19.	Rmt	92	13.15	388.00	23.28			411.28	4.11	415.39

Upto 125%					
Above 125%	Rmt	750.00	707.00	530250	

Scanned with CamScanner

Sl No	Description of work	Unit	Page No.	Item No.	Basic/Date Rate	AW 6%	Lead & Lift	Loading	Sub Total	TP +1%	Grand Total
17	Supplying and drawing 3 core flat PVC sheathed submersible pump cable maufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 to IS 8130-1984 and virgin grade PVC insulation and power coating extruded PVC sheathed suitable for working voltage upto 1100 volts with specified IS 694:1990 and confirming to the attwached GTP of group A 3CX4.0 sq.mm (PWD Ele SR 2014-15,P-12/It-2.10.3)	Rmt	12	2.10.3	126.70				126.70	1.27	127.97
18	Providing and fixing in position 50mm Nominal bore non-return valve vertical type of approved make including cost of all materials,labour and HOM of equipment with all leads complete as per specifications.(PWD SR 18-19,P-95/It no.13.62)	No	95	13.62	1269.00	76.14			1345.14	13.45	1358.59
19	Spplying and fixing 50mm GI Union.(PWD SR 2018-19,P-XXXIX)	No	XXXIX		223.70				223.70	2.24	225.94
20	Spplying and fixing 50mm GI Elbow.(PWD SR 2018-19,P-XXXIX)	No	XXXIX		111.80				111.80	1.12	112.92
21	Spplying and fixing 50mm GI Nipple.(PWD SR 2018-19,P-XXXIX)	No	XXXIX		104.30				104.30	1.04	105.34
22	Spplying and fixing 50mm GI Hose colleres(PWD SR 2018-19,P-XXXIX)	No	XXXIX		103.00				103.00	1.03	104.03

Scanned with CamScanner

Sl No	Description of work	Unit	Page No.	Item No.	Basic/Date Rate	AW 6%	Lead & Lift	Loading	Sub Total	TP +1%	Grand Total
23	Supplying and fixing 20" x 20" x 2.5" polished wood board made of not less than 15mm thick plank on both the sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., P.no.44 / I no. 6.6.6 KPWD ELE SR 2019-20	No	44	6.6.6	302.00				302.00	3.02	305.02
24	Supplying and fixing miniature circuit breakers on existing MCB distribution board using necessary fixing materials and 'C' type curve indicator ON/OFF energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.(PWD Ele SR 2019-20,P-47/Sl no.6.16.6) 40-63 Amps	No	47	6.16.6	1936.00				1936.00	19.36	1955.36
25	Supplying of TPST with rewirable porcelain channels in SM encloser made out of 14 SWG powder coated point of approved colour 32 amps (PWD Ele SR 2019-20,P-24,It-5.5.1)	No	24	5.5.1	1800.00				1800.00	18.00	1818.00
26	Supplying and fixing LED type panel board indicating lamp with required colour suitable for 220 V AC 50 HZ 12/24 V DC(PWD Ele SR 2019-20,p-29,Sl no.5.38)	No	29	5.38	430.00				430.00	4.30	434.30
27	Suppling fully automatic star delta starter unit push button type with suitable wires 2 conductors and adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts phase and wired after fixing to the existing wooden board for motor. upto 12.5HP(PWD Ele SR 2019-20,p-24,Sl no.-5.2.1)	No	24	5.2.1	6400.00				6400.00	64.00	6464.00

Scanned with CamScanner

Sl No	Description of work	Unit	Page No.	Item No.	Basic/Date Rate	AW 6%	Lead & Lift	Loading	Sub Total	TP +1%	Grand Total
28	Supplying and fixing single phase preventer using necessary wires over an existing panel board suitable for motar up to 20 HP capacities.(PWD Ele SR 2019-20,p-44/Sl no.5.3)	No	44	5.30	745.00				745.00	7.45	752.45
29	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade multistrand copper conductor single core wire in open or concealed system of wiring as per IS 694:1990 & conforming to the attached GTP of group A. 4 sqmm (PWD Ele SR 2019-20,p-6,It-2.3.4(d)	Mtrs	6	2.3.4	45.00				45.00	0.45	45.45
30	Supplying fixing and wiring heavy duty low voltage capacitors conforming to IS 2834 phase 400/440 volts grade, for power factor improvement of rotating machinery.(PWD Ele SR 2019-20,p-29/Sl no.5.37)	No	29	5.3.7	400.00				400.00	4.00	404.00
31	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cotouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit... The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. The connection from the to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia (PWD Ele SR 2019-20,p-40,Sl no.6.1)	No	40	6.10	2999.70				2999.70	30.00	3029.70
32	Digging of trench of 0.36mtrs deepx0.5 mtrs wide refilling the trench to the required gorund level and consolidating etc., complete (PWD Ele SR 2019-20,p-41,It-6.6.2) hard soil	Mtrs	41	6.6.2	102.00				102.00	1.02	103.02

	Above 125%
8	

Scanned with CamScanner

Sl No	Description of work	Unit	Page No.	Item No.	Basic/Date Rate	AW 6%	Lead & Lift	Loading	Sub Total	TP +1%	Grand Total
33	Supplying laying 1.1 KV class LT UG cable having aluminium conductor PVC insulated extruded inner shethed galvanised steel strip (excep 2cx 10 sqmm wire armoured) confirming to IS-3975:1990 (No. of strip indicated in GTP) and extruded PVC outer sheathed armoured cable with specified IS-1554,part-1:1988 and confirming to the attached GTP of group A 4 core 16 sq mm PWD Ele SR 2019-20,p-40,It-6.4.4)	Mtrs	40	6.4.4	150.00				150.00	1.50	151.50
34	Labour charge for laying 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe/ on wall / on poles as required in existing trench/duct. 6 sq mm to 16 sq mm(PWD Ele SR 2019-20,p-41,It-6.5.1)	No	41	6.5.1	11.88				11.88	0.12	12.00
35	Supplying and fixing class-A(medium duty) GI pipe wall thickness not less then 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1KV class 40mm(PWD Ele SR 2019-20,p-41,It-6.9.1)	Rmt	41	6.9.1	335.00				335.00	3.35	338.35
36	Supplying and fixing LT cast iron pot heads suitable for 1.1KV class UG cable filled with necessary bitumen / insulating compound complete with terminals,clamps bolts and nuts and washer etc.,complete for 16 sq mm as per specifications.(PWD Ele SR 2019-20,p-42,It-6.10.2)	No	42	6.10.2	270.00				270.00	2.70	272.70

Scanned with CamScanner

Sl No	Description of work	Unit	Page No.	Item No.	Basic/Date Rate	AW 6%	Lead & Lift	Loading	Sub Total	TP +1%	Grand Total
37	Supplying and fixing porcelain fuse channel with cut out on the existing wooden block and wiring complete 63 amps(PWD Ele SR 2019-20,p-25,It-5.7.3)	No	25	5.7.3	227.00				227.00	2.27	229.27
38	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials upto a lead of 1000 meters, stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 (KPWD SR 2018-19, P-140, It 18.47)	Cum	140	18.47	899.00	53.94			952.94	9.53	962.47
39	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5 (KPWD SR 2018-19, P-6, It-2.4)	Cum	6	2.40	449.00	26.94			475.94	4.76	480.70

Scanned with CamScanner

Sl No	Description of work	Unit	Page No.	Item No.	Basic/Date Rate	AW 6%	Lead & Lift	Loading	Sub Total	TP +1%	Grand Total
40	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (external work) - 50mm nominal OD pipes (KPWD SR 2018-19, P-99, It-13.87.6)	Mtrs	99	13.87.6	432.00	25.92			457.92	4.58	462.50
42	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete. (external work). - 20mm nominal OD pipes (KPWD SR 2018-19, P-98, It-13.85.2)	Mtrs	98	13.85.2	157.00	9.42			166.42	1.66	168.08
44	KSRB 2-4 : Refilling available around earth pipe lines,cables in layers mot exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. And lift upto 1.5m. Including cost of all labour complete as per specifications.(KPWD SR 2018-19, P-7, it-2.11)	Cum	7	2.11	121.00	7.26			128.26	1.28	129.54

Scanned with CamScanner

Sl No	Description of work	Unit	Page No.	Item No.	Basic/Date Rate	AW 6%	Lead & Lift	Loading	Sub Total	TP +1%	Grand Total
46	KSRB 2-4 : Providing and fixing in position brass gate valve with C.I.wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials,labour and HOM of equipments with all leads complete as per specifications. (P.No.94/ I.No. 13.37 of KPWD SR 2018-19)	Each	94	13.37	1739.00	104.34			1843.34	18.43	1861.77
47	KSRB13-6.2-1 : Providing and fixing in position brass stop cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.2 / 13.3 (Pg No:-93/I.No:-13.26 of KPWD SR 2018-19 2018-19)	Each	93	13.26	141.00	8.46			149.46	1.49	150.95
64	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301(pg no-143,S.Lno-19.14)KPWD S.R 2018-19	Cum	143	19.14	41.00	2.46	40.96		84.42	0.84	85.26

Scanned with CamScanner

Sl No	Description of work	Unit	Page No.	Item No.	Basic/Date Rate	AW 6%	Lead & Lift	Loading	Sub Total	TP +1%	Grand Total
66	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. (pg no- 153,S.Lno-20.5)KPWD S.R 2018-19	Cum	153	20.50	1882.00	112.92			1994.92	19.95	2014.87
67	KSRRB M600-1.Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601of MORTH V Revision and IS 456 Table-5 do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver. Page No. 174/ Item No. 22.1.2 PWD SR 2018-19	Cum	174	22.1.2	3976.07	238.56			4214.63	42.15	4256.78

Scanned with CamScanner

Sl No	Description of work	Unit	Page No.	Item No.	Basic/Date Rate	AW 6%	Lead & Lift	Loading	Sub Total	TP +1%	Grand Total
68	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel,laying and fixing of 125 micron thick polythene film, wedges, steelplates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to -do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. Page No. 176/ Item No. 22.6.1 PWD SR 2018-19	Cum	176	22.6.1	5662.57	339.75			6002.32	60.02	6062.35

Upto 125%

Scanned with CamScanner

Sl No	Description of work	Unit	Page No.	Item No.	Basic/Date Rate	AW 6%	Lead & Lift	Loading	Sub Total	TP +1%	Grand Total
69	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. Page No. 176/ Item No. 22.7 PWD SR 2018-19	Sqm	176	22.70	68.00	4.08			72.08	0.72	72.80

Assistant Engineer
BBMP Bangalore
Ward No.17

	Upto 125%	Rmt	750.00	707.00	530250
	Above 125%	Rmt	200.00	707.00	141400
8	300 to 350 m				

Scanned with CamScanner